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#### PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 29773	FOR FURTHER ACTION	See item 4 below
International application No. PCT/DE2005/000430	International filing date (day/month/year) 10 March 2005 (10.03.2005)	Priority date (day/month/year) 15 March 2004 (15.03.2004)
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237	
Applicant INFINEON TECHNOLOGIES AG		

	•	•			
. 1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a tota	l of 6 sheets, including this co	over sheet.		
	In the attached sheets, any refere to the international preliminary	•	the International Searching Authority should be read as a reference ter I) instead.		
3.	This report contains indications	relating to the following item	is:		
	Box No. I	Basis of the report	•		
	Box No. II	Priority			
	Box No. III	Non-establishment of opin applicability	nion with regard to novelty, inventive step and industrial		
	Box No. IV	Lack of unity of inventior	n		
	Box No. V		r Article 35(2) with regard to novelty, inventive step or industrial d explanations supporting such statement		
	Box No. VI	Certain documents cited	•		
	Box No. VII	Certain defects in the inte	rnational application		
	Box No. VIII	Certain observations on the	he international application		
<b>4.</b>	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to des makes an express request und	signated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but der Article 23(2), before the expiration of 30 months from the priority		
			Date of issuance of this report 29 November 2006 (29.11.2006)		
	The International Bure 34, chemin des Col	lombettes	Authorized officer  Ellen Moyse		
  Facsi	1211 Geneva 20, Switzerland . Facsimile No. +41 22 338 82 70		e-mail: pt05@wipo.int		

Form PCT/IB/373 (January 2004)

#### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	ANSI				
То:	PCT PCT				
	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
	(PCT Rule 43bis.1)				
	Date of mailing (day/month/year) See form PCT/ISA/210				
Applicant's or agent's file reference 29773	FOR FURTHER ACTION  See paragraph 2 below				
International application No.  PCT/DE2005/000430  International filing of the second s	Priority date (day/month/year)  15.03.2004				
International Patent Classification (IPC) or both national classification G06F9/38, G06F5/06, G06F13/40	on and IPC				
Applicant INFINEON TECHNOLOGIES AG					
1. This opinion contains indications relating to the following items:    Box No. I   Basis of the opinion					
Name and mailing address of the ISA/EP	Authorized officer				
Facsimile No.	Telephone No.				

Box	No. I Busis of this opinion
1.	With regard to the lunguage, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language
	, which is the language of a translation furnished for the purposes of international search (under
	Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	tiled together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
	turnamed subsequently to this reductity for the purposes of section.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
	$\sim$

Вох	No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
1.	Statement		
	Novel	ty (N) Claims	_ YES
		Claims 1	_ NO
	Invent	tive step (IS) Claims	_ YES
		Claims 2, 3, 4, 5, 6, 7, 8, 9	_ NO
	Indust	trial applicability (IA) Claims 1-9	YES
		Claims	_ NO
2.	Citations	and explanations:	
2.	1.	Reference is made to the following document:	
	.L. 4	D1: US 6 055 597 A (HOUG ET AL) 25 April 2000 (2000-	
		04-25)	
		04-23)	
	2.	It is assumed that the formulations "whether the	
	۷.	is " and "if is " in claim 1 refer to the	
	•	same decision. However, this idea must be phrased in	
		an unambiguous way in claim 1 (PCT Article 6 and PCT	
		Rule 6).	
	•	Rule 0).	
	3.	INDEPENDENT CLAIM 1	
	J •	INDELENDENT CENTILL I	
2	3.1.	The present application does not satisfy the	
		requirements of PCT Article 33(1) because the	
		subject matter of claim 1 is not novel within the	
		meaning of PCT Article 33(2).	
		Document D1 discloses (the references in parentheses	
		are to D1):	
		- computer system for electronic data processing,	
		having:	
		·	

International application No.
PCT/DE2005/000430

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- first and second data processing units, and a data transmission memory device that is coupled with said first data processing unit on the input side and with said data processing unit on the output side (abstract),
- a data transmission memory device having a first memory area and a second memory area, said first memory area and said second memory area being configured (abstract) to save one data set each, and the data transmission memory device being configured such that a data set that is to be transmitted from the first data processing unit to the second data processing unit is transmitted according to the following steps:

(abstract)

- relaying information as to whether the second data processing unit is ready to transmit data to the data transmission memory device (figure 2);
- deciding whether copying is enabled based on whether the second data processing unit is ready to transmit data (figure 2);
- relaying to the first memory area and to the memories in the first memory area the data contained in the data set to be transmitted (figure 2);

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- copying the data set saved in the first memory area into the second memory area when copying is enabled (figure 2);
- relaying the data set saved in the second memory area to the data processing unit (abstract).
- 4. DEPENDENT CLAIMS 2-9

  Claims 2-9 do not contain any features which, in combination with the features of any claim to which they refer back, meet the PCT requirements for novelty and inventive step.
- 4.1. In claim 2, it is obvious for a person skilled in the art to allow copying from the first to the second memory area only when no data transfer is taking place with the data processing units in order to prevent conflicts. Therefore, the claim is not inventive.
- 4.2. The features of claims 4, 5 and 9 represent only one of several obvious possibilities from which a person skilled in the art would choose according to the circumstances in order to solve the problem of interest, without thereby exercising inventive skill.
- 4.3. The features of claims 6, 7 and 8 correspond to those of a shadow register and have been known in this technical field for a long time. For this reason, the claims are not inventive.

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written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fori PCI/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further options, see Form PCT/ISA/220.	If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
3. For further details, see notes to Form PCT/ISA/220.	For further options, see Form PCT/ISA/220.						
	3.	For further details, see n	notes to Form	PCT/ISA/220. •			
Name and an illustration of the ICA OFF	<b>N1</b> .	4	ICA CD		Authoritation		
Name and mailing address of the ISA/EP  Authorized officer	Name an	a mailing address of the	isavep	·	Authorized officer		
Facsimile No.	17	- N-			Tolo-kar N	•	

Box	No. I	Basis of this opinion
1.		regard to the lunguage, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
,		Rule 12.3 and 23.1(b)).
2		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
	. a.	type of material
		a sequence listing .
		1 table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
•	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
		•
		•
		·
		•
		•

Вох	Box No. V  Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement	t	•		
	Novel	lty (N) Claims	YES	S	
		· Claims 1	NO NO		
	Invent	tive step (IS)  Claims	· vice	c	
	***************************************	Clamb	YES NO		
	Indust	trial applicability (IA) Claims 1-9	YES		
		. Claims	NO		
2.	Citations	and explanations:			
	1.	Reference is made to the fo	ollowing document:		
		D1: US 6 055 597 A (HOUG E	T AL) 25 April 2000 (2000-		
		04-25)	·		
	•	•			
	2.	It is assumed that the form	nulations "whether the		
	_ ,	•	·		
	is" and "if is" in claim 1 refer to the same decision. However, this idea must be phrased in an unambiguous way in claim 1 (PCT Article 6 and PCT				
	Rule 6).				
	Rule 6).				
	^				
	3.	INDEPENDENT CLAIM 1			
		•			
	3.1.	The present application do	es not satisfy the		
		requirements of PCT Article	e 33(1) because the		
		subject matter of claim 1	is not novel within the		
		meaning of PCT Article 33(	2).		
	•	Document D1 discloses (the	references in parentheses		
	•	are to D1):			
	•	·			
		- computer system for elec-	tronic data processing,	•	
		having:	- · ·		
			•		
1					

International application No.
PCT/DE2005/000430

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- first and second data processing units, and a data transmission memory device that is coupled with said first data processing unit on the input side and with said data processing unit on the output side (abstract),
- a data transmission memory device having a first memory area and a second memory area, said first memory area and said second memory area being configured (abstract) to save one data set each, and the data transmission memory device being configured such that a data set that is to be transmitted from the first data processing unit to the second data processing unit is transmitted according to the following steps:

(abstract)

- relaying information as to whether the second data processing unit is ready to transmit data to the data transmission memory device (figure 2);
- deciding whether copying is enabled based on whether the second data processing unit is ready to transmit data (figure 2);
- relaying to the first memory area and to the memories in the first memory area the data contained in the data set to be transmitted (figure 2);

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- copying the data set saved in the first memory area into the second memory area when copying is enabled (figure 2);

- relaying the data set saved in the second memory area to the data processing unit (abstract).

- 4. DEPENDENT CLAIMS 2-9
  - Claims 2-9 do not contain any features which, in combination with the features of any claim to which they refer back, meet the PCT requirements for novelty and inventive step.
- 4.1. In claim 2, it is obvious for a person skilled in the art to allow copying from the first to the second memory area only when no data transfer is taking place with the data processing units in order to prevent conflicts. Therefore, the claim is not inventive.
- 4.2. The features of claims 4, 5 and 9 represent only one of several obvious possibilities from which a person skilled in the art would choose according to the circumstances in order to solve the problem of interest, without thereby exercising inventive skill.
- 4.3. The features of claims 6, 7 and 8 correspond to those of a shadow register and have been known in this technical field for a long time. For this reason, the claims are not inventive.